

STATINTL

6 May 1963

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In regard to your recent request for additional information on the Print-Out Selector Unit for the Detaphone System, the following additional information is submitted.

The message parity count (M.P.C.) is the last character transmitted and is the sum of bits of all characters transmitted, including C.O.M. and E.O.T. Each bit of the M.P.C. is to be a parity bit for the sum of the longitudinal column as the message would be displayed in printed form. The individual bits of the M.P.C. represent a even parity for the longitudinal column. While the parity bit of each character (2⁰ position) is odd and represents only that character, the 2⁶ bit position of the M.P.C. represents the sum of the entire longitudinal column of parity bits and is of even logic as all other bits in the M.P.C. The following examples are provided to help clarify the above.

| | | | | | | | |
|--------|---|---|---|---|---|---|---|
| S.O.M. | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| + | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 2 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| 9 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |
| - | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| 4 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| E.O.T. | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| M.P.C. | 1 | 1 | 0 | 0 | 0 | 0 | 1 |

| | | | | | | | |
|--------|---|---|---|---|---|---|---|
| S.O.M. | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| A | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| E.O.T. | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| M.P.C. | 1 | 0 | 0 | 1 | 0 | 0 | 0 |

| | | | | | | | |
|--------|---|---|---|---|---|---|---|
| S.O.M. | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 2 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| 3 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 4 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| 5 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| 7 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| 8 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| E.O.T. | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| M.P.C. | 1 | 0 | 0 | 0 | 1 | 1 | 0 |

| | | | | | | | |
|--------|---|---|---|---|---|---|---|
| S.O.M. | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| E | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| E.O.T. | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| M.P.C. | 1 | 0 | 0 | 0 | 1 | 0 | 0 |

If the above information is not adequate please feel free to contact me for additional information.

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STAT I would also like to take this opportunity to let you know how the other three [] readouts are working at this time. To date, we have not kept sufficient records to give an accurate statement on their reliability. However, we feel that the performance we have encountered thus far is way below acceptable limits. The majority of the problems seem to be in the tertiary check but there are also a large number of random problems, many of which clear themselves up before the maintenance man can check them out. We have recently started maintaining a complete instrument function and maintenance log and should have more precise data available shortly. In summation, I feel that the circuitry logic and components used are extremely marginal contributing to the large number of random problems which we are having.

Sincerely yours,

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